#### KORENEV. B. G.

Metod kompensiruyushchikh nagruzok v prilozhenii k zadache o ravnovesii, kolebaniyakh i ustoychivosti plit i membran. Prikl. Matem. 1 Mekh., 5:6 (1940), 61-72.

K voprosu o primenenii sposoba kompensiruyushchikh nagruzok. Prikl. Matem. 1 Mekh., 6 (1942), 91-94.

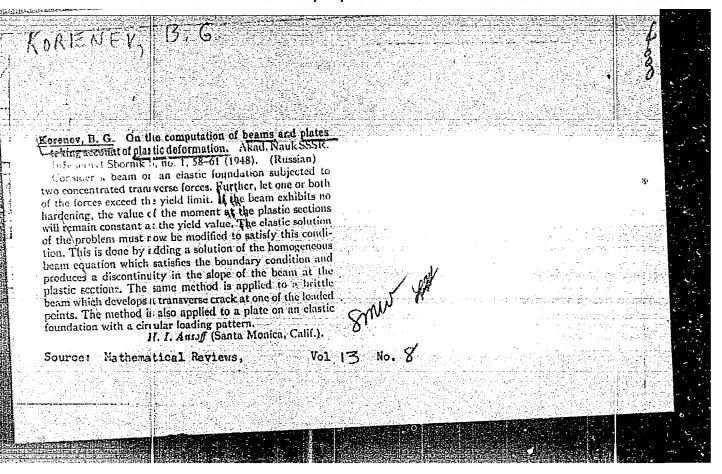
SO: Mathematics in the USSR, 1917-1947
Edited by Kurosh, A.G.,
Markusevich, A.I.
Rashevskiy, P.K.
Moscow-Leningrad, 1948

already been considered by other investigators, intermessing tions given by the author require less involved calculations. I. S. Sokolnikoff (Los Angeles, Calif.).

KOREMEV, B. G.

Korenev, B. G. "Round plates on an elastic foundation", in the collection: Issled. raboty po inzh. konstruktsiyam, Issue 1, Moscow, 1948, p. 131-74, - Bibliog: 7 items.

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 11, 1949).



KORENEV, B.G., doktor tekhnicheskikh mauk, professor, redaktor;
VOL'HIR, A.S., kandidat tekhnicheskikh mauk, redaktor.;
PUL'KINA, Ye.A., tekhnicheskiy redaktor.

[Studies in the dynamics of structures] Issledovaniia podinamike scorushenii. Pod red. B. G. Koreneva. Moskva, Gos. isd-vo stroitel noi lit-ry. 1951. 159 p. (MLRA 8:9)
[Microfilm]

1. Moscow. Tsentral'myy nauchno-issledovatel'skiy institut promyshlehmykh soorushemii. . (Structures, Theory of)

WESR/Physics - Elasticity, Plexure 21 May 51

"Plexure in an Infinite Plate Lying on an Elastic Foundation," B. G. Korenev, Cen Sci Res Inst of Industrial Structures

"Dok Ak Nauk SSSR" Vol LXXVIII, No 3, pp 417-420

Korenev considers certain problems on the bend in unbounded plate having const thickness and lying on elastic base. Results obtained give soln of problem on the bend in plate due to the loads acting in the area of circular ring, particularly for certain new models of the elastic base. Submitted

1867100

KOREHEV, B. G.

USER/Physics - Elasticity

21 Jul 51

"The Bend in a Plate, Lying on an Elastic Foundation, Due to Loads Distributed Rectilinearly and Rectangularly," B. G. Korenev, Cen Sci Res Inst of Industrial Constructions

"Nok Ak Nauk SSSR" Vol LXXIX, No 3, pp 411-414

Considers certain problems on the bend (flexure) of an unbounded plate lying on an elastic basis, with the load distributed over the area of: rectangle, line, and section of a line. Sets up the els in integral form. Submitted by Acad A. I.

Mekrasov 24 Nay 51.

211189

# "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824620003-6

KORENEV, B. G., Prof.; SYSOEV, V. I.

Method of demping the swaying of tower-like structures. Biul. stroi. tekh. 10, No. 5, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. UNCLASSIFIED.

KORENEY, B.G., professor, doktor tekhnicheskikh nauk; RUCHIMSKIY, M.N., kandidat tekhnicheskikh nauk, nauchnyy redaktor; BERDICHEYSKIY, G.I., redaktor; MEDVEDEY, L.Ya., tekhnicheskiy redaktor.

[Problems in calculations for girders and plates on a cushion]
Voprosy rascheta balok i plit na uprugom osnovanii. Moskva, Gos.
izd-vo lit-ry po stroitel'stru i arkhitekture, 1954, 230 p.

(MIRA 8:1)

(Girders) (Elastic plates and shells)

#### CIA-RDP86-00513R000824620003-6 "APPROVED FOR RELEASE: 06/14/2000

KORENEY, B.C., professor; RUCHIMSKIY, M.N., kandidat tekhnicheskikh nauk; ROSTOVTSEVA, M.P., redaktor isdatel'stva; TOKER, A.M., tekhnicheskiy redaktor. [Some problems of dynamic stresses in girders with an elastic support] Mekotorye sadachi dinamiki balok na uprugom osnovanii. Moskva, Gos. isd-vo lit-ry po stroit. i arkhitekture, 1955. 42 p. (Noscow. TSentral'myi nauchno-issledovatel'skii institut promyshlennykh soorushenii. Mauchnoe soobshchenie, no.20). (MLRA 9:11) (Girders)

124-57-1-937

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 130 (USSR)

AUTHOR:

Korenev, B.G.

TITLE:

On the Calculation of an Infinite Plate Supported by an Elastic Foundation, With Consideration of Plastic Deformations (O raschete neogranichennoy plity, lezhashchey na uprugom osnovanii, s uchetom plasticheskikh deformatsiy)

PERIODICAL: V sb.: Issledovaniye prochnosti, plastichnosti i polzuchesti stroit. materialov. Moscow, 1955, pp 183-201

ABSTRACT:

Utilizing the concept introduced by the author on the angular deformation loading (Inzhenernyy sb., 1948, Vol 5, Nr 1) a calculation method is given for beams and plates supported by an elastic foundation, with due consideration of the plastic deformations. The calculation method shown for beams on a framework foundation was earlier published in a book by the same author (RzhMekh, 1955, abstract 351 K). In the calculation of infinite plates on a framework foundation it is assumed that the percentual reinforcement in the radial and annular directions, as well as above and below the plate, is the same

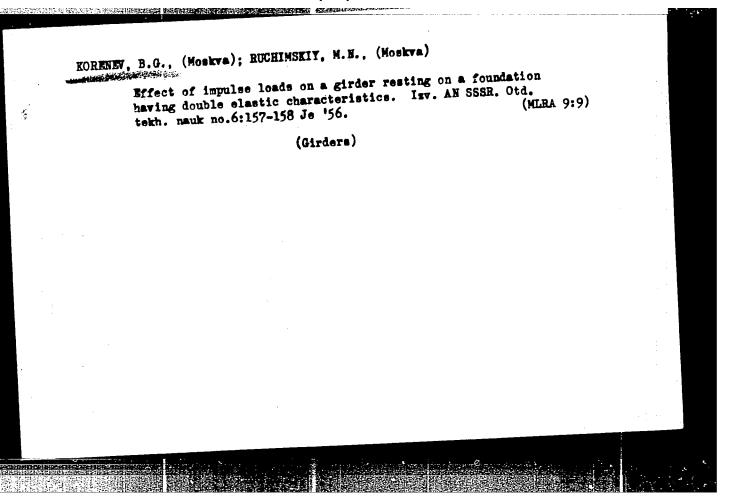
Card 1/2

124-57-1-937

On the Calculation of an Infinite Plate Supported by an Elastic Foundation (cont.)

as that of a plate that is uniformly loaded along a circle. It is assumed that during an increase in the loading, once the creep limit has been attained in the lower reinforcement system, the radial and tangential moments under the load will remain constant and equal to the limit moment. Thereupon the upper reinforcement system will begin to function and a second range of plastic deformations will come into being. The appearance of such a range (that of an annular hinge) is assumed as the condition of the limit state of the plate. The calculation method is based on the solution for a plate that is loaded along two concentric circumferences having certain peculiarities which produce a discontinuity of tangential moments along the circumferences, while the continuity of the deflections, radial moments, and transverse forces is preserved. The area in which the elastic solution yields an excess value of the tangential moment relative to the limit moment is divided into a number of annular areas wherein the intensity of the discontinuous loading along each ring (including the angular deformations) is determined from the requirement that the tangential moment does not anywhere exceed the limit moment. Trial calculations have shown that this device affords a three-fold increase in the load transfer. The results of destructive tests on thin plates, adduced here, confirm qualitatively the calculation principles enunciated. The applicability of the methods for other types of homogeneous elastic foundations is affirmed. 1. Plates--Deformation--Mathematical analy- M.I. Gorbunov-Posadov

2. Beams -- Deformation -- Mathematical analysis sis



THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

SOV/124-57-5-5908

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 128 (USSR)

Korenev, B. G. AUTHOR:

Some Aspects of the Analysis of Beams and Plates Resting on an TITLE:

Elastic Foundation (Nekotoryye voprosy rascheta balok i plit,

lezhashchikh na uprugom osnovanii)

PERIODICAL: Sb. tr. Mosk. inzh.-stroit. in-t, 1956, Nr 14, pp 145-167

ABSTRACT: The author examines two problems: 1) the problem of calculating constant-thickness beams and plates within the elastic range, and

2) the problem of calculating beams and plates with allowance made for the plastic deformations that occur within their reinforcements. The author first solves the problem of the flexure of an infinite plate subjected to a lateral load and to a uniformly distributed tensile stress produced by constant forces po acting upon the plate's middle surface. Various means are used to simulate an elastic foundation. In particular, the foundation is simulated by a semi-infinite elastic solid that is either isotropic or has an elasticity modulus which

varies exponentially. Various kinds of lateral loads are assumed in the particular examples examined. In one case, for instance,

Card 1/2

CIA-RDP86-00513R000824620003-6" **APPROVED FOR RELEASE: 06/14/2000** 

SOV/124-57-5-5908

Some Aspects of the Analysis of Beams and Plates Resting on an Elastic Foundation

the lateral load distribution varies in accordance with the law q = a cos ax cos & y; in another case the load is uniformly distributed over a rectangular area; in yet another case it is distributed along a straight line y = 0; in still another case it is applied over a number of circular areas. Examined also is the problem of the flexure of an infinitely long beam subjected to a concentrated force and to a concentrated moment which varies in accordance with the law q = a cos ax. The author affirms that it is possible to calculate finite beams and plates by regarding them, for calculation purposes, as being finite portions of an infinite beam or plate. Examined next is an infinite plate resting on a continuous elastic foundation. The load applied to the plate is uniformly distributed along a circular circumference having a reduced radius that is small as compared with unity. Cal ulations are performed for the case of a plate having a hole through it and being acted upon by the forces P, which are applied along the rim of the hole. The foundation is assumed to be elastic with respect to the bearing coefficient. First, the elastic problem is examined. The method of discontinuous solutions is used to take into account the plastic deformations that occur in an annular reinforcement. Other approximate methods for solving the problem are suggested also."

A. G. Ishkova

Card 2/2

GOL'DENBLAT, I.I.; MORRETT, B.G.; SIZOV, A.M.

Snew leads in the building nerms and regulations. Strei.prem.34 nc.6:25-27 Je '56. (NIRA 9:9)

1.7Sentral'my nauchne-issledovatel'skiy institut promyshlemnykh seerusheniy. (Roofs)

# KOREMEV, B.G. Steady temperature fields in a thin plate and rod supported by a continuous homogeneous foundation. Dokl.AN SSSR 107 no.2:225-228 Mr 156. (MIRA 9:7)

1. TSentral'nyy nauchno-issledovatel'skiy institut promyshlennykh soorusheniy. Predstavleno akademikom M.A. Lavrent'yevym.

(Elastic plates and shells)

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KORBNEV, B.C., doktor tekhnicheskikh nauk, professor, redsktor; YEGOROVA, H.O., redsktor izdstel'stva; STEPANOVA, E.S., tekhnicheskiy redsktor

[Studies in structural dynamics] Issledovaniia po dinamike scorushenii; sbornik statei. Pod red. B.G.Koreneva. Moskva, Gos.izd-vo lit-ry po stroit. i arkhit., 1957. 182 p. (MLRA 10:9)

1. Akademiya stroitel'stva i arkhitektury SSSR. TSentral'nyy nauchnoissledovatel'skiy institut stroitel'nykh konstruktsiy. (Structures, Theory of)

124-58-9-9507

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 7 (USSR)

AUTHOR:

Korenev, B.G.

TITLE:

On the Starting Resonance (O puskovom rezonanse)

PERIODICAL: V sb.: Issled. po dinamike sooruzheniy. Moscow, Gos. izd-vo lit. po str-vu i arkhitekt., 1957, pp 162-183

ABSTRACT:

The forced vibrations of a system with a single degree of freedom are investigated by means of Van der Pol's method for the case when the amplitude and frequency of the driving force vary with time according to some law. Also investigated is the influence of the extinction of the vibrations according to Ye.S. Sorokin's hypothesis (V sb.: Issled. po dinamike sooruzheniy. Moscow, Gos. izd-vo lit po str-vu i arkhitekt., 1951) The examination comprises cases in which the amplitude of the driving force varies exponentially and incrementally under the condition that the frequency of the driving force varies in proportion to time, and also for the case when the frequency of the driving force is either a step function or a trigonometric function of the time. The solutions of almost all the problems are obtained in implicit form.

Card 1/1

- 1. Vibration--Mathematical analysis 2. Resonance--Mathematical analysis
- 3. Mechanics--Theory

AUTHOR:

PA - 2045 Some Plane Problems of the Theory of Thermal Waves (Russian).

TITLE:

Doklady Akademii Nauk SSSR, 1957, Vol 112, Nr 1, pp 29-32

PERIODICAL: (U.S.S.R.) Received: 2 / 1957

THE PROPERTY OF THE PROPERTY O

Reviewed: 3 / 1957

ABSTRACT:

The present work investigates the problem of heat waves in plates with sufficiently low height h. The temperature is assumed to be constant with respect to thickness; the specific thermal capacity c, the density Q, and the heat conduction coefficient A are assumed as being constant. The coordinate axes x and y are assumed to be located in the central plane of the plate. Here two boundary conditions for the planes z = + h/2 are investigated: 1.) Both planes are adiabatic boundaries. This case is identical with the plane problem of thermal waves in an infinite cylinder. 2.) A thermal exchange occurs with the medium in both planes, which can be described by boundary conditions of the third kind. In these two cases the problem of thermal waves has much in common with the problems of the bending of plates on an elastic base.

For the plane problem of thermal waves 82T/8x2+82T/8y2 = (1/2)8T/8t + F(x,y) sin @ t

Card 1/3

PA - 2045 Some Plane Problems of the Theory of Thermal Waves (Russian).

applies if the first boundary condition is satisfied. Here T(x,y,t) denotes the temperature, F(x,y) - the law of distribution of the thermal sources which (without destruction of bution of the thermal sources which (without destruction of bution of the thermal sources which (without destruction of bution of the thermal sources which (without destruction of U(x,y)) are assumed to be only in the phase sin U(x,y) and U(x,y) are assumed to be only in the case of U(x,y) and U(x,y) are applied that U(x,y,t) = V(x,y) cos U(x,y) are applied that U(x,y,t) = V(x,y) cos U(x,y) are applied that U(x,y,t) = V(x,y) cos U(x,y) and U(x,y) are applied that U(x,y,t) = V(x,y) cos U(x,y) cos U(x,y) are applied that U(x,y,t) = V(x,y) cos U(x,y) cos U(x,y) and U(x,y) is a sum of U(x,y).

The author then passes on to dimensionless polar coordinates, in which case the determination of  $\varphi(x,y)$  suffices; next, the complete solution of the problem is found with the aid of the equations  $\nabla^2 \nabla^2 \varphi + (\omega/s)^2 \varphi = 0$  and  $\varphi_4 = (s/\omega) \nabla^2 \varphi$ .

The solution of this differential equation of the fourth order is sufficiently well worked out in the theory of the bending of plates, which simplifies computation. In detail the follow-

ing problems are investigated:

A punctiform source with the intensity Q sin \( \Omega \) t lies upon an unlimited plate, in which case \( \phi \) differs only by a constant factor from HERTZ' solution for a force acting upon a swimmingplate.

Card 2/3

APPROVE

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PA - 2092

AUTHOR:

Thermal waves in a Thin Unlimited Plate Resting upon a Massive

TITLE:

Homogeneous Base. (Russian)

PERIODICAL:

Doklady Akademii Nauk SSR, 1957, Vol 112, Nr 2, pp 221-223

(U.S.S.R.) Received: 3 / 1957 Reviewed: 3 / 1957

ABSTRACT:

Let it be assumed that temperature is constant in the vertical cross section of the thin plate (of the thickness h). The specific thermal capacity c, the density Q, and the thermal conduction coefficient. A are assumed to be constant, and the coordinate axes x and y are in the central plane. Let boundary conditions of the third kind be assumed on the upper boundary surface, while the lower plane of the plate is assumed to be in close contact with the massive base which is homogeneous in the planes which are parallel to Oxy. This problem has much in common with the problems relating to the bending of plates on a continuously elastic base and it is also closely connected with some of the thermal conduction problems previously dealt with by the

First, an auxiliary problem is solved: Thermal sources are applied

to an unlimited plate:  $q_3 = A_1 \sin \omega \sin \alpha x \sin \beta y +$ 

+  $A_2$ cos  $\omega$  t sin  $\alpha x$  sin  $\beta x$ . By the upper (plane) boundary surface

Card 1/3

the case of the action of a single source changing is in accordance with the law  $\sin \omega$  t and the temperature of the upper boundary surface of the base changes in accordance with the law

 $T_{\rm card} = K_1(r) \sin \omega t + K_2(r) \cos \omega t$ . Herefrom there then follows Card 2/APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R0008246 CIA-RDP86-00513R000824620003-6

PA - 2092

Thermal Waves in a Thin Unlimited Plate Resting upon a Massive Homogeneous Base. (Russian)

without difficulty a dependence between  $A_3$ ,  $A_4$  and  $A_5$ ,  $A_6$ . The here found relations between the coefficients  $A_1$ ,  $A_2$ ,  $A_3$ ,  $A_4$ ,  $A_5$ ,  $A_6$  are explicitly given. Without disturbing general conditions it suffices to deal with case  $A_1 \neq 0$ ,  $A_2 = 0$ ; the function resulting

for T is explicitly given. This formula is also specialized for the case that a punctiform thermal source Q sin  $\omega$  t acts upon the plate. On the strength of the results obtained it is easily possible to solve a number of other problems concerning the action brought to bear by heat sources on to a plate and on to a rod. If the base is a homogeneous half-space, the problem of thermal waves in a half-space with the sources sin  $\alpha$ x sin  $\beta$ y sin  $\Theta$  t on the boundary remains to be dealt with.

ASSOCIATION:

Not given

PRESENTED BY:

SUBMITTED:

AVAILABLE:

Library of Congress

Card 3/3

AUTHOR TITLE KORENEY, B.G.

A Die (Stamp) lying on elastic Semispace whose Modulus of Elasticity
is a Power Function of Depth. (Shtamp, lezhashchiy na uprugom poluprostranstve, modul uprugosti kotorogo yavlyayetsya stepennoy

PERIODICAL

ABSTRACT

Doklady Akademii Nauk SSSR, 1957, Vol 112, Nr 5, pp 823-826 (U.S.S.R.) funktsiyey glubiny.) Reviewed 5/1957 First some preliminary works bearing on the matter are mentioned. It is of interest to increase the class of models with elastic foundation. The present paper has the following aim: 1) Formulation of the problem of a die resting on a foundation with homogeneous axially-symmetric core. I.e. the lowering of the point (x,y) of the underground on the strength of the action of a vertical uniform force which is applied at the point  $(\frac{x}{2}, \frac{y}{2})$  is only a function of the distance between these points:  $K(x) = K(\sqrt{(x-\frac{x}{2})^2 + (y-\frac{y}{2})^2})$ . 2) The problem is solved for the case in which the modulus of elasticity of the foundation changes with increasing depth according to First the equations for the lowering are given for the case that the load p(x,y) acts on the surface of the foundation. The equations of this problem are generalized dual equations. They are specialized here for the axially-symmetric case and also for the problem of the stamp with the radius R which is lowered by Wo(r). The solution of this system of equations is known for a special case, but it is of

Card 1/3

ADDDAVE

CIARRESEMS

KORENEY B.G., prof., doktor tekhn. nauk, red.; AFANAS'YEV, A.M., kand. tekhn. nauk, nauchnyy red.; GORYACHEVA, T.V., red. 1zd-va.; EL'KINA, E.M., tekhn.red.

CHIEF CHIEF CHIEF CONTROL CONT

[Calculating elastically based plates; collection of articles] Voprosy rescheta plit na uprugom osnovanii; sbornik statei. Pod red. B.G. Koreneva. Moskva. Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialsm. 1958. 119 p. (HIRA 11:10)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut stroitel'nykh konstruktsii.

(Elastic plates and shells)

(Concrete slabs)

KORENEV, B.G.; ZHILINSKIY, K.A.; BUNIN, N.N. [translator]; BUNKIN, G.I.

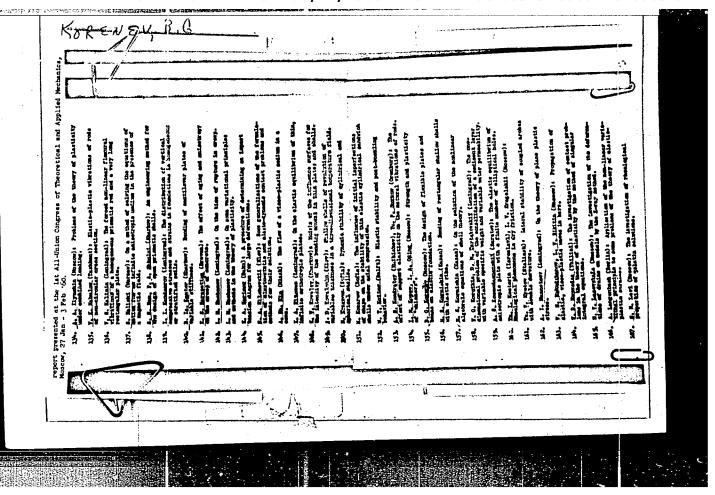
[translator]; GRISHINA, M.M. [translator]

Reviews and bibliography. Osn., fund.i mekh.grun. no.6:

(MIRA 13:4)

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(Bibliography--Joundations) (Bibliography--Soil mechanics)



PHASE I BOOK EXPLOITATION

SOV/4523

Korenev, Boris Grigor'yevich

Nekotoryye zadachi teorii uprugosti i teploprovodnosti, rashayemyye v besselevykh funktsiyakh (Certain Problems of the Theory of Elasticity and Heat Conductivity Solvable in Bessel Functions) Moscow, Fizmatgiz, 1960. 458 p. 5,000 copies

Eds.: M.N. Ruchimskiy, and I.A. Markuzon; Tech. Ed.: N.A. Tumarkina.

PURPOSE: This book is intended for engineers, physicists, mathematicians, and technicians.

COVERAGE: The book contains essentials of the theory of Bessel functions and selected cases of their application to solutions of problems in the theories of applied elasticity and heat conductivity. The theories of elasticity and oscillation, related problems, and special methods of procedure such as the initial-parameter method are given. Numerous methods used in the applied theory of elasticity and described in this work have not yet found a sufficiently wide application in solving theoretical problems of heat transfer. According to the author, it is more important for those working in this field to use the opportunities for wide application of results obtained while solving various problems

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## CIA-RDP86-00513R000824620003-6

# Certain Problems (Cont.)

# SOV/4523

lems of the theory of elasticity than to follow strictly the content of the individual chapters in the book. No personalities are mentioned. There are 172 references: 134 Soviet (including 8 translations), 18 German, and 20 English.

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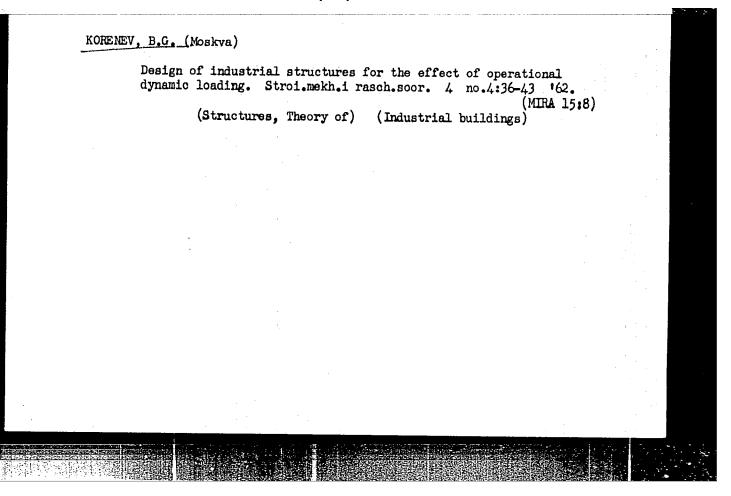
Designing a beam on an elastic foundation for the effect of a brief and suddenly applied load. Stroi. mekh. i rasch. scor. 4 (MIRA 15:6) no.3:25-30 62.

(Beams and girders)

KORENEY, B.C.; CHERNICOVSKAYA, Ye.I.; BORODINA, I.S., red.izd-va;
GOL'BERG, T.M., tekhm. red.

[Calculations for plates on an elastic foundation]Raschet plit
na uprugom osnovanii; posobie dlia proektirovshchikov. Moskva,
Gosstroiizdat, 1962. 354 p. (MIRA 15:12)

(Elastic plates and shells)



KORENEV, B.G., doktor tekhn.nauk, prof., red.; ZUEKOVA, M.S., red.izdwai KOFOPKOVA, N.N., tekhn. red.

[Vibrations of buildings and structures]Kolebaniia zdanii i
sooruzhenii. Pod red. B.G.Koreneva, Moskva, Gosstroiizdat,
1963. 221 p. (MIRA 16:3)

l. Akademiya stroitel'stva i arkhitektury SSSR. Institut
stroitel'nykh konstruktsiy.

(Structures, Theory of)

GOL'DENBLAT, I.I.; KORENEV, B.G.; RABINOVICH, I.M.; SMIRNOV, A.F.

Concerning the article by A.A.Pikovskii and A.A.Derkachev,
"Dynamic theory of stability." Stroi.mekh.i rasch.soor. 5
no.2:44-47 '63. (MIRA 16:6)

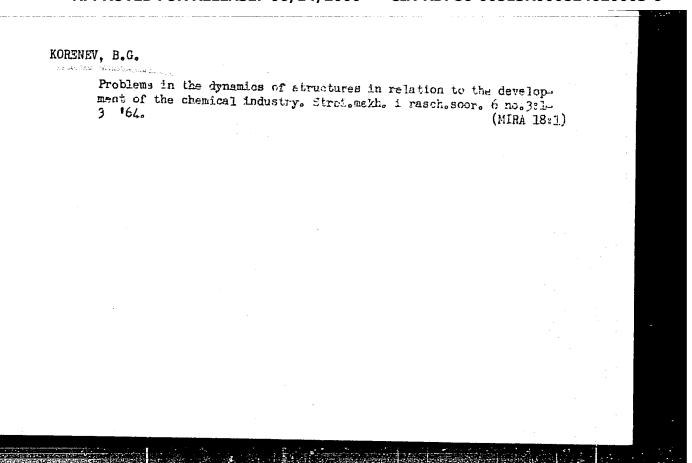
(Stability)

Modern problems of structural dynamics".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

"The bending of plates on an elastic and elastic-plastic foundation"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - Feb 64.



KORENEV, B.G.

Some two-dimensional thermoelasticity problems involving periodic influence of heat. Dokl. AN SSSR 164 no.2:294-297 S 165. (MIRA 18:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy im. V.A. Kucherenko. Submitted February 19, 1965.

ACC NR: AT7007032

(A)

SOURCE CODE: UR/0000/66/000/000/0213/0226

AUTHOR: Korenev, B. G. (Moscow)

ORG: None

TITLE: Impulse action on fluid-filled cylindrical and prismatic containers

SOURCE: Stroitel'naya mekhanika (Structural mechanics). Moscow, Stroyizdat, 1966,

213-226

TOPIC TAGS: ideal fluid, oscillation, fluid dynamics

ABSTRACT: The author considers oscillations of an ideal fluid in a vertical cylindrical or prismatic container subjected to the action of a horizontal pulse. The pressures transmitted by this action to the walls and bottom of the container are analyzed together with those acting on columns inside the container. Particular attention is given to the specific problem of fluid oscillations in a circular cylindrical container with an off-center circular column. The problem is considered within the framework of the theory of gravitational waves assuming that the fluid is at rest when t=0. At this moment the container is put into translational motion in the horizontal direction. The motion of the fluid with respect to the moving container is analyzed assuming that the upper surface of the fluid is free. The resultant equations are used for determining the effect of central and off-center columns on the pressure against the walls

Card 1/2

ACC NR: AT7007032

of the conAPPROVED, FOR PELEASE appoint 4 2000 rocid BDP86-20513R000824620003 problem of fluid oscillations in containers with noncircular cross sections is also considered. Orig. art. has: 5 figures, 8 tables, 46 formulas.

SUB CODE: 20/ SUBM DATE: None/ ORIG REF: 004/ OTH REF: 002

BRAGIN, A.A.; KORENEV, D.P. Telemetering system for spectrometric studies of wells. Vop. pered. (MIRA 18:1)

IDEENEY, G.

Flew of popular initiative. Mast. ugl. 7 nc.ll:3-4 H '58.

(MIRA 11:12)

1. Predsedatel' Stalinskege ebkema prefecyusa rabechnikh ugel'ney premyshlennesti.

(Ceal mines and mining)

SHESTAK, S.S., nauchnyy sotrudnik; KORENEVA, G.P.; KORENEVA, T.A.;

SAPOGOV, A.C., nauchnyy sotrudnik

Use of SZHK (pregnant mareAs serum). Veterinariia 37 no.1:10-12

Ja '60. (MIRA 16:6)

1. Orenburgskaya nauchno-issledovatel'skaya veterinarnaya stantsiya
(for Shestak). 2. Direktor Simferopol'skoy mezhsovkhoznoy laboratorii (for Korenev). 3. Simferopol'skaya mezhsovkhoznaya
laboratoriya (for Koreneva). 4. Turkmenskaya NIIZhV (for Sapogov).

(Serum therapy) (Veterinary medicine)

ROMANOV, V.M.; TSAREGORODTSEV, A.Kh.; NESTEROVA, Yu.F.; KORENEV, G.P.; MELENT'YEV, A.A.

Groundless refusal to act on the basic link in the prevention of brucellosis (reply to S.M. Smirnov's article "Results and prospects of burucellosis prevention in the U.S.S.R." in "Zhur. mikrobiol.epid i immun., No.11, 1958). Zhur.mikrobiol.epid.i immun. 31 no.2:144-146 F 160. (MIRA 13:6) (BRUCELLOSIS) (SMIRNOV, S.M.)

ALEKSANDROV, N.I.; GEFEN, N.Ye.; GAPOCHKO, K.G.; GARIN, N.S.; GORDON, G.Ya. KOZHUSHKO, M.I.; KORENEV, G.P.; LAZAREVA, Ye.S.; LEYKEKHMAN, Ye.P.; MASLOV, A.I.; PAVLOV, G.A.; POLIVANOV, N.D.; ROMANOV, P.S.; RYBAKOV, P.S.; RYBAKOV, M.G.; SAMOKHVALOV, M.F.; SMIRNOV, M.S.; SHTERN, M.A.; CHEPKOV, V.N.

Experience with mass aerosol immunization with tularemia dust vaccine. Zhur. mikrobiol., epid. i imm. 41 no. 2:16-43 F '64. (MIRA 17:9)

L 23604-65 EVT(L) IJP(c)

AV4045255

BOOK EXPLOITATION

5/

Korenev, Georgiy lasil yevich

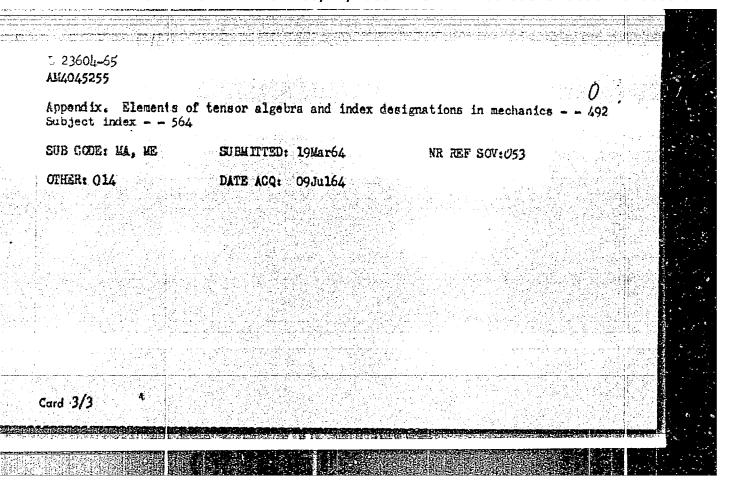
Introduction to the mechanics of controllable objects (Vvedeniye v mekhaniku upravlyuyemogo tela) Moscow, Ed-vo Nauka, 1964. 568 p. illus., append., irdex. Errata slip interted. 5200 copies printed. Editor: G. M. Il'icheva; Technical editor: A. P. Kolesnikova; Proofreader: S. N. Yemel'yanova.

TOPIC TAGS: cyberietics, controllable object, controllable point, mechanics of motion, solid mechanics, three dimensional motion, two dimensional motion, tensor algebra, linear approximation

PURPOSE AND COVERAGE: The coverage is indicated by the Table of Contents. It should be noted that "controllable objects" are defined as all means of transport, leading, displacement, and assembly, utilizing cranes, helicopters, guided missiles, etc. Many new concepts and different coordinate systems are introduced in the book.

Card 1/3

L 23604-65 N44045255 TABLE OF CONTENTS: Part I. Rasic concepts and methods in the mechanics of controllable objects - - 11 Ch. 1. Methods of programming motion = - 29 Ch. 2. Control errors - - 86 Ch. 3. The control system as a whole - - 97 Part II. Motion of a controllable object in the vertical plane - - 117 Ch. 4. Two-dimensional programmed motion of a controllable point - - 117
Ch. 5. Two-dimensional motion of a controllable point in generalized fields - 188
Ch. 5. Dynamics of a controllable object in the case of motion in the vertical plane - - 222 Part III. The general case of motion of a controllable object - - 279 Ch. 7. Three-dimensional programmed motion of a controllable point - - 279 Ch. S. Three-dimensional motion of a controllable point in generalized fields -Ch. 9. Dynamics of a controllable object in the case of motion in space - - 354 Ch. 10. Concerning linear approximation - - 440 Card 2/3



KAN, Veniamin Lipmanovich; KEL'ZON, Anatoliy Saulovich, Prinimali uchastiye: MINTSEERG, B.L.; USHAKOVA, G.N.; KORENEV, G.V., kard. fiz.-mat. nauk, retserrent; MERKIN, D.R., doktor fiz.-mat. nauk, retsenzent; ROZENGAUZ, N.M., red.

[Theory of proportional navigation] Teoriia proportsional'noi navigatsii. Leningrad, Sudostroenie, 1965. 423 p. (MIRA 18:10)

KORENEV, G.V., kand. sel'skokhoz. nauk

Productive qualities of the seed of winter grain crops. Zemledelie
27 no.7:80-81 Jl '65.

1. Khar'kovskiy sel'skokhozyaystvennyy institut.

KORENEV, G.V., kand.sel'skokhoz. nauk

Development of grain during harvesting by stages. Zemledelie 26 no.8:76-79 Ag '64. (MIRA 17:11)

1. Khar'kovskiy sel'skokhozyaystvennyy institut.

### "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824620003-6

KORENEY, C.V.

IOKK, A.D. [Locke, Arthur S.] KORKERY, Q.W. [trenslator]; LEVANTOVSKIY,

V.I., red.; CAVRILOV, S.S., tekhn.red.

[Guidance. Translated from the English] Upravlenie smariadami.

[Guidance. Index of tekhniko-teoret. lit-ry, 1957. 775 p.

(Guided missles)

(Guided missles)

KORENEV, G. V.

Grasses

Sprouting and growing perennial gravees (Gramineaw)., Sov. agron. 10, no. 3, 1952

Monthly List of Russian Accessions. Library of Congress, May 1952. UNCLASSIFIED

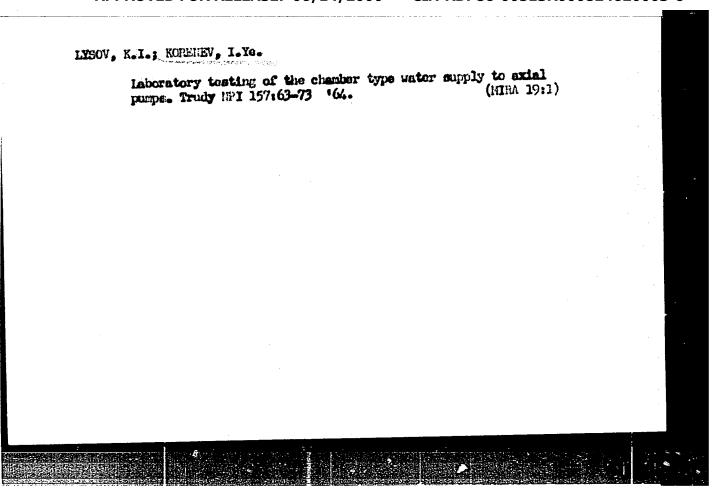
KORKIEV, G.V., dotsent

Harvesting grain in separate stages. Zemledelie 8 no.7:47-52 Jl '60.
(MIRA 13:9)

1. Kafedra rasteniyevodstva Khar'kovskogo sel'skokhozyaystvennogo instituta.

(Grain— Harvesting)

# Changes in the sebaceous glands of the rabbit skin under the effect of ultraviolet rays. Vest.derm. i ven. 38 no.5:42-45 My '64. (MTRA 18:12) 1. Zaporozhskiy institut usovershenstvovaniya vrachey imeni Gor'kogo (nauchnyye rukovoditeli - prof. A.F.Ukhin i prof. G.A. Koblov). Submitted July 2, 1963.



LYSOV, K.I.; KORENEV, I.Ye.

Results of laboratory studies of several types of water pipes with vertical axial pumps. Trudy NPI 138:49-66 '63.

(MIRA 16:10)

DMITRIYEV, B.A., kand. tekhn. nauk; KORENEV, K.D.; TSVETKOV, O.N.

Synthesis of OP washing compounds from phenols extracted peat oils. Torf. prom. 38 no.6:24-28 '61. (MIRA 14:9)

1. AN SSSR (for Dmitriyev). 2. Kalininskiy torfyanoy institut (for Korenew, TSvetkov).

(Gleaning compounds) (Peat)

DMITRITEV, S.A., kand.tekhn.nauk; KORENEV, K.D., inzh.; TSVETKOV, O.N., inzh.

Continuous alkylation of peat phenols in the presence of ion exchange resin. Torf. pros. 39 no.3:16-13 '62. (MEM 16:1)

1. Institut goryuchikh iskopaysayth.

(Alkylation) (Phenols) (Ion exchange)

TSVETKOV, O.N.; DMITRIYEV, S.A.; KARAVAYEV, N.M.; KORENEV, K.D.

Goal chemical cresols as raw material for the production of surface—active substances. Koks i khim. no.10:40-44 '63.

(MIRA 16:11)

1. Institut goryuchikh iskopayemykh AN SSSR.

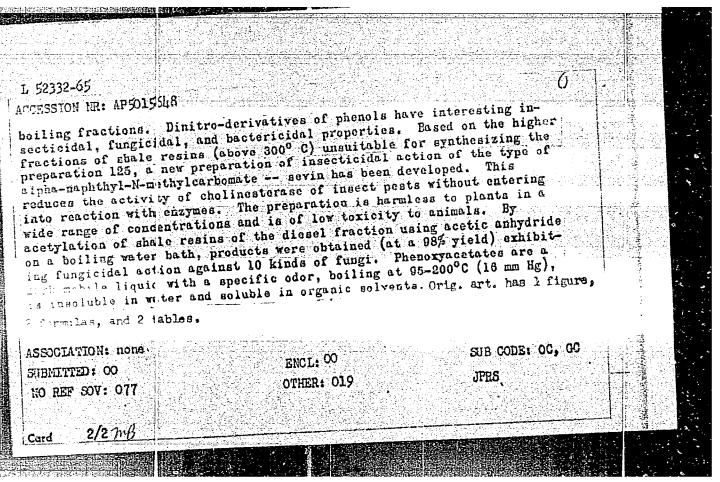
KCRENEV, K.D.; DMITRIYEV, S.A.; KARAVAYEV, N.M.; TSVETKOV, O.N.

Phenols of oil shale tar as raw material for the chemical industry.

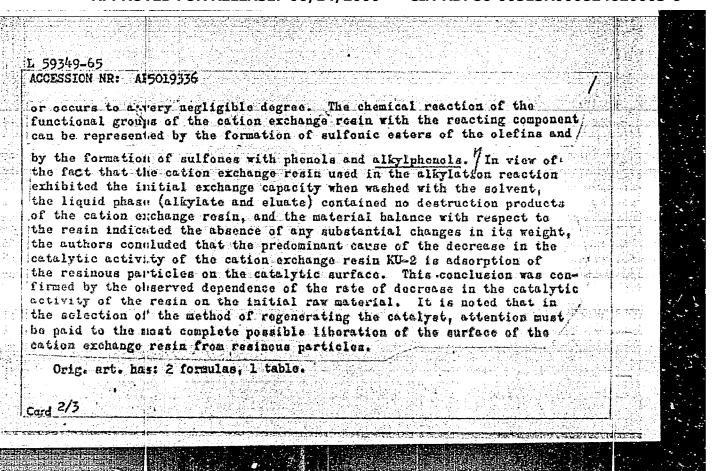
Khim. prom. no.6:401-407 Je \*164.

(MIRA 18:7)

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	UR/0064/64/000/007/0484/0491  itriyev,S.A.; Tsvetkov, O. N.  lal for the chemical industry  7, 1964, 484-491  erial, insecticide, fungicide  ained from shale phenols are s. Sulfonation of phenols pro- oducts synthesized from the ated by the tendency of shale teric hindrance of polysubsti- act containing ligninsulfoacids on with sulfonated phenols. The the condensation products (viscous cod tanning properties. Studies e natural tanning agents with a	UR/0064/64/000/007/0484/0491  itriyev.S.A.; Tsvetkov, C. N.  lal for the chemical industry  7, 1964, 484-491  erial, insecticide. fungicide  ained from shale phenols are  s. Sulfonation of phenols pro- oducts synthesized from the ated by the tendency of shale iteric hindrance of polysubsti- act containing ligninsulfoacids on with sulfonated phenols. The the condensation products (viscous cood tanning properties. Studies e natural tanning agents with a tanning agents can be obtained	UR/0064/64/000/007/0484/0491  itriyev.S.A.; Tsvetkov, C. N.  lal for the chemical industry  7, 1964, 484-491  erial, insecticide, fungicide  ained from shale phenols are  s. Sulfonation of phenols pro- oducts synthesized from the ated by the tendency of shale iteric hindrance of polysubsti- act containing ligninsulfoacids on with sulfonated phenols. The the condensation products (viscous cood tanning properties. Studies te natural tanning agents with a tanning agents can be obtained



L 59349-65 EPF(c)/EWF(m)/EWG(m) Pr-4 RM/RWH UR/0020/64/157/005/1171/1173 ACCESSION HR: AP5019336 AUTHOR: Tsvetkov, O. N.; Korenev, K. D.; Dmitriyev, S. A TITLE: Problems of the use of the cation exchange resin KU-2 in the process of alkylation of phenols with higher olefins SOURCE: AN SSSR. Doklady, v. 157, no. 5, 1964, 1171-1173 TOPIC TAGS: ion exchange resin, catalysis, alkylation, phenol, ion exchange ABSTRACT: Phenol and a technical mixture of cresols were alkylated with propylene trimer in the presence of the cation exchange resin KU-2 in the H-form, dried to constant weight, and the reaction products and spent catalyst were investigated, in an effort to elucidate the main causes of the decrease in the catalytic activity of cation exchange resins, which is of great significance in the selection of the method and conditions of catalyst regeneration. Since the alkylation products did not contain sulfur, it was concluded that cleavage of the cation exchange resin under the conditions of the alkylation process and elution of the low-molecular fragments of destruction either generally does not occur Card 1/3



"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824620003-6

ASSOCIATION: Institut goryuchi	kh iskopayemykh Go	skomiteta po toplivnov	生物 医
Industry under Gosplan SSSR)	SR ( Institute of	Fuels, Committee on the Fuel	
SUBMITTED: 21Apr64	ENCL: 00	SUB OCODE: MI, GC	
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	2.3.15年1月18日第二次日本公司 1.5日本文学	이번 바람들은 사람이 다른 사람이 나가 되는데 나를 다 다 했다.	医电影的第三人称单数

TOVPENETS, Ye.S., kand. tekhn. nauk; IVASHCHENKO, V.M., inzh.; STYCHINSKIY, L.P., inzh.; ZHUKOV, A.I., inzh.; MERSHCHIY, N.P., inzh.; KORENEY, K.I., inzh.; SHUMEYKO, R.I., inzh.; IVANOV, F.I., inzh.

Mechanical properties of reinforcement rods after heat treatment

Mechanical properties of reinforcement rods after heat treatment from the rolling process temperature. Stal' 25 no.2:157-160 (MIRA 18:3)

1. Donetskiy politekhnicheskiy institut; Makeyevskiy metallurgicheskiy zavod; Nauchno-issledovatel'skiy institut "Donpromstroy" i Novo-Kramatorskiy zavod tyazhelogo mashinostroyeniya.

L 27090-66 EWT(m) UR/0097/65/000/010/0015/0018 SOURCE CODE: AP6017412 ACC NRI AUTHOR: Gorodnitskiy, F. M. (Candidate of technical sciences); Yukhvets, I. A. (Candidate of technical sciences); Korenev, K. I. (Engineer); Rickind, B. Ya. (Engineer); Shumeyko, R. I. (Engineer); Livchak. T. N. (Engineer); Litvinov, A. A. (Engineer); Makarevich, A. A. (Engineer) ORG: none TITIE: Properties of high-strength reinforcement material subjected to electrical heating SOURCE: Beton i zhelezobeton, no. 10, 1965, 15-18 TOPIC TAGS: concrete, wire, solid mechanical property ABSTRACT: Specimens of high-strength reinforcing wire for concrete were subjected to mechanical tests to determine the effects of electrothermal prestressing on the strength of reinforcing materials. The experimental procedure is described and the mechanical characteristics, chemical composition and geometric shape of the various wires studied are given. It is found that this optimum pretensioning temperature (i.e. the highest temperature which does not reduce the ultimate strength of the wire) is 400°C for a 5-mm wire and 350°C for a 3-mm wire. These temperatures meet the standard requirements for permanent elongation of wire which is not low-temperature annealed during manufacture. Since 3-mm wire is not sufficiently tensioned 666.982.4 UDC:  $\frac{\text{Card}}{2}$ Card 2/2 W

IOPATINA, O.F., starshiy nauchnyy setr.; KOREMEV, K.N., inzh.;
ANDREYEV, I.D., nauchnyy setr.; SRESTOPALOV, D.I., agr.; YESIKOV,
P.R., agr.; MOLOTKOV, P.S., red.; ITUNINA, R.G., red.; SERADZSKAYA,
P.G., tekhn. red.

[Marrial on wages and the establishment of work norms on collective farms] Spravochnik po oplate i normirovaniiu truda v kolkhozakh.

Voronezh, Voronezhskoe knizhnoe izdevo, 1959. 189 p.

(MIRA 15:4)

1. Voronezh, (Province) Oblastnoye upravleniye sel'skogo khozyaystva.

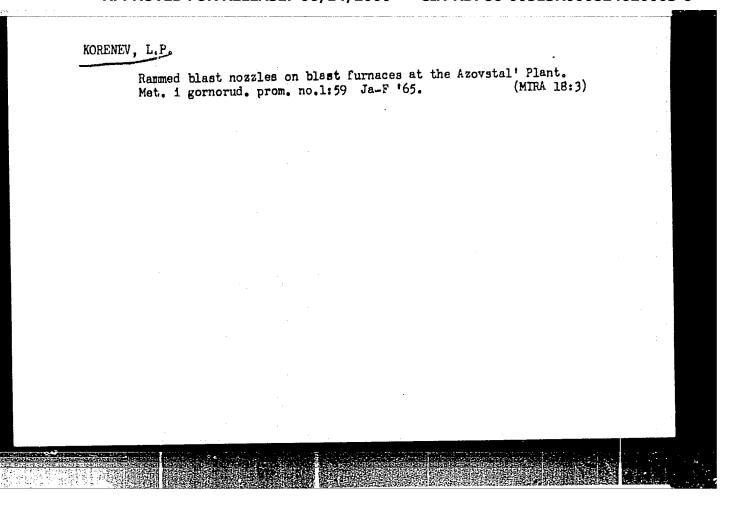
2. TSentral the chernozemnyy filial Vsesoyuznogo nauchnoissledovatel skogo instituta ekonomiki sel skogo khozyaystva (for Lopatina, Andreyev). Voronezhskoye oblastnoye upravleniye sel skogo khzyaystva (for Korenev, Shestopalov, Yesikov).

(Voronezh Province Collective farms Income distribution) (Voronezh Province Collective farms Production standards)

TSVETKOV, O.N.; KORENEV, K.V.; DMITRIYEV, S.A.; KARAVAYEV, N.M.

Mechanism underlying the alkylation of phenols by higher olefins in the presence of cation-exchange resins. Dokl. AN SSSR 162 no.4: 833-835 Je '65. (MIRA 18:5)

1. Institut goryuchkikh iskopayemykh AN SSSR. 2.Chlen-korrespondent AN SSSR (for Karavayev).



CHERVONYY, A., doktor tekhn.nauk, polkovnik; KORENEV, M., inzhenerpodpolkovnik

Indexes of the reality of firing operations. Voen.vest. 42
no.9:86-88 S 162. (Artillery)

(Artillery)

CHF! VONYY, A., polkovnik, doktor tekhn.nauk; KORENEV, M., inzhenerpodpolkovnik

Evaluating the effectiveness of fire. Voen. vest. 42 no.1:
77-81 Ja '63.

(MIRA 17:4)

	L 63967-65	
	ACCESSION NR: A15022495 UR/0089/65/018/006/0647/0648	
	APPHOR: Korenev H. A.; Nevskiy, B. V.; Zorina, Z. P.; Ambartsumyan, Ts. L.;	
	TITLE: Precipitation of uranyl and armonium arsenates and some of their properties	
	SOURCE: Atomnayu energiya, v. 18, no. 6, 1965, 647-648	
	TOPIC TAGS: uranium compound, uranyl nitrate, asmonium compound, arsenate, chemical precipitation	
	ABSTRACT: X ray and thermographic analysis of uranyl nitrates (with 0.5g/l uranium) showed that as 20°C and arsenic-uranium near stoichiometric the precipi-	
	taion of uranyl ind ammonium arsenates from uranyl nitrates began at pH & 1.5.	
	At pH = 2.5 the main part of uranium precipitation was accomplished by the ammonium neutralization. Prepared uranyl and ammonium arsenated looked like a fine crystal	
i	line, lemon-yellow powder with bright green luminescence in ultraviolet light with	
	the chemical formula ${ m UO_2NH_4AsO_4}$ $\cdot$ ${ m 3H_2}$ ). Formation of uranyl and associum areenates	
	Card 1/2	
	TATE OF LANGUAGE IN LANGUAGE I	

ACCESSION NR: AP5022495  and di- and trivalent iron 1) concentration and pH of initial and final uranyl a The constructed curves sho co-precipitated at close p Precipitation of divalent therefore selective precip of divalent iron and alumn	the solution was detained ammonium arsenates in the transpland ammonium that uranyl and ammonium the transplant and aluminum beging the transplant is	rmited. The privation were nium arsenates and selective uranium at larger pH the saily achieved in	determined. trivalent iron separation. an uranium the presence	0 1
ASSOCIATION; none	ENGL: OO	SOB CODE: IC	, ac	
ASSOCIATION: none  SUBMITTED: 13May64  NR REF SOV: OC	ENCL: 00 OTHER: 004	SUB CODE: IC	• GC	

KORENEV #	Si di		
	1061 Koreney h S. The theoretical bases of the processes of the elegations of got and ally to remove dust particles in the keyers of verticus pocks (in Russian), (Gos. Soyuz. I.d. artomob. i avonator in-t. ao. 73) Moscow, Manhaje. 1954, 24 pp. + Illus. 75 kobi; Ref. 2b. Mekb. 1956, Hev. 6075.  Processes are inventigated dealing with the separations of dust particles when air is passed through the packs present in filters and in motors and tractions. Author is of the view that this process of temoval of particles of dust from the gas consists of two stages. In the first stage the dust particles separate our, basically, mades the action of forces of leadin which develops as a consequence of multiple small revolutions of the flow in the pack layer. In the second stage of the gas cleansing, the active part is played, basically, by the impeter of the dust particles on the surface of the solid or liquid to lies.  A suitable formula is deduced to relevalian at the resistance of the pack in relation to its working time at given through-puts of alread the constructive parameters of the pack. Examples are given, utilizing the formulas cited in the acticle.  Couriery Referentional Element  Translation, courtesy Ministry of Supply, England		

# KORENEV, M.S.

WSR/Engineering - Air cleaners

Card 1/1

• Pub. 12 - 3/16

Authors

t Korenev, M. S.

Title

\* Air cleaners for automobile engines

Periodical

: Avt. trakt. prom. 8, 8-12, Aug 1954

Abstract

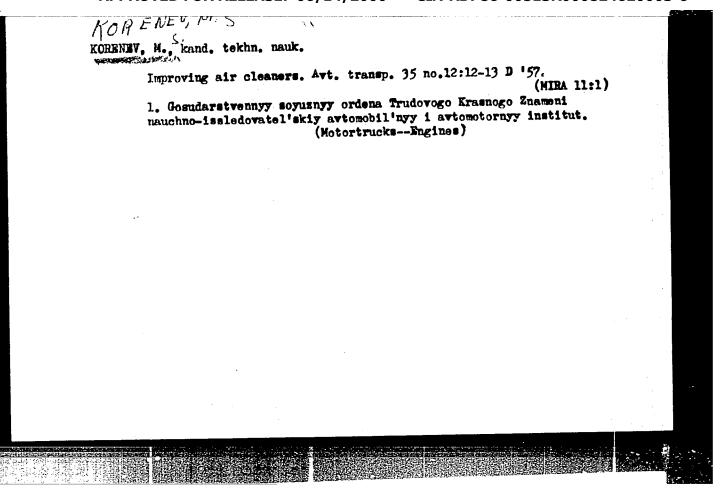
The operation of automobile air cleaners under various weather conditions was investigated. The tests were conducted on air cleaners type VM-9, VM-91, VM-11, and VM-9Ts. Diagrams depicting the above mentioned air cleaners are presented, together with tables and graphs giving technical data on their operational characteristics.

Institution

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Submitted

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#### "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824620003-6

KURENEV MIST

Aristov, I.A., Engineer,

117-3-26/28

AUTHOR:

TITLE:

Conference on Problems of Automobile Engine Life (Konferentsiya

po povysheniyu dolgovechnosti avtomobilinykh dvigateley)

PERIODICAL: Mashinostroitel', 1958, # 3, p 47 (USSR)

ABSTRACT:

The conference was organized by the NTO Mashprom and convened in 1957 in Moscow. A number of 230 delegates from automobile

plants, research institutes, and higher technical schools par-

ticipated.

The following persons delivered reports: Deputy Chief Designer of the Yaroslav Automobile Plant P.I. Novikov, leading designer of the Khar'kov Plant "Serp i Molot", M.K. Kubata, leading designer of the Moscow Plant of Small Engine Displacement Automobiles (Moskovskiy zavod malolitrazhnykh avtomobiley), V.A. Mitrofanov, Candidate of Technical Sciences A.D. Kuritsina of the Machine Institute of the USSR Academy of Sciences (Institut mashinovedeniya Akademii nauk SSSR), scientific worker of NAMI A.G. Al perovich ("Life of Modern Engines of Soviet and Foreign Make"), Candidate of Technical Sciences M.S. Korenew (of NAMI) ("On Application of Highly Effective Air Filters for Increasing the Life of Automobile Engines").

Card 1/3

process can produce gas corrosion at high temperature, which

Conference on Problems of Automobile Engine Life

117-3-26/28

apparantly explains the high rate of wear in the upper part of the cylinder lining and the piston rings.

Candidate of Technical Sciences D.I. Vysotskiy (NAMI) made a report on investigation methods with the use of radioactive isotopes. Candidate of Technical Sciences A.I. Niskevich (NATI) announced that NATI has used radioisotopes for 5 years in testing the wear resistance of materials under laboratory conditions, as well as for evaluating the wear rate of the piston rings of "Д-35 " and "Д-54" tractors in test running.

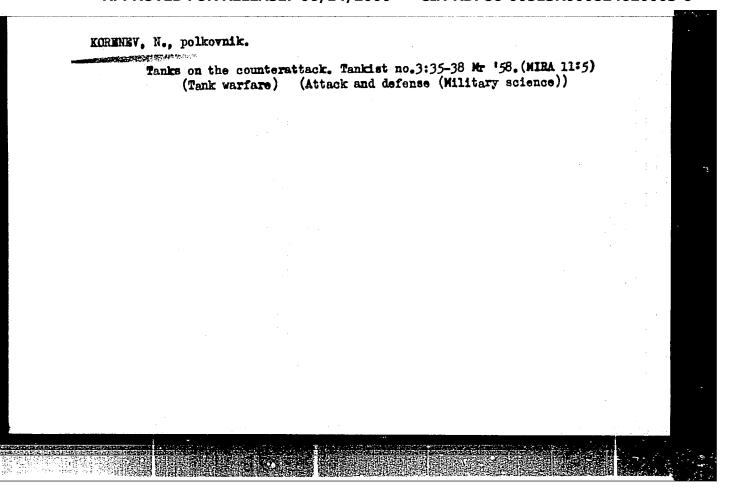
Library of Congress AVAILABLE:

Card 3/3

Training of young aircraft commanders. Grashd. av. 12 no.4:9-11

Ap '55.

(Aeronantics--Study and teaching)



KOTEL'NIKOV, N.V.; KORENEV, N.A.; YERMOLINA, T.D.

Effect of the bath and its temperature on the magnetic properties of the nickel layer obtained by the chemical method. Izv. Sib. otd. AN SSSR no.62105-107 62 (MIRA 1727)

1. Permskiy gosudarstvennyy universitet.

24,220

S/020/62/143/004/023/027 B101/B138

AUTHORS:

Kotel'nikov, I. V., Korenev, N. A., and Yermolina, T. D.

TITLE:

Temperature dependence of saturation magnetization, and the magnetic structure of nickel films obtained by the chemical method

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 4, 1962, 908-910

TEXT: The magnetic behavior of chemically precipitated nickel films was investigated. (I) Ni was precipitated at 87°C from a bath of (g/1) 30 nickel sulfate, 10 sodium hypophosphite, and 10 sodium acetate. The same surface (12.5 cm²) was treated with different bath volumes: 15-ml bath changed 24 times (1); 70-ml bath changed 18 times (2), and 500-ml bath changed 3 times (3). It was found that the coatings consisted of ferromagnetic and nonferromagnetic layers, and had different Is temperature dependences. (Fig. 1). (II) 15 copper samples were successively coated for 10 min each in a 500-cm³ solution. The last three samples were no

Card 1/32

Card 2/3

Apply (Vigorana and Carlos Car

KOTEL'NIKOV, N.V.; KORENEV, N.A.; YERMOLINA, T.D.

Temperature dependence of the magnetization saturation and the

magnetic structure of nickel films prepared by a chemical method.

Dokl. AN SSSR 143 no.4:908-910 Ap '62. (MIRA 15:3)

1. Permskiy gosudarstvennyy universitet im. A.M.Gor'kogo. Predstavleno akademikom A.V.Shubnikovym.

(Nickel--Magnetic properties)

41574 8/020/62/146/004/006/015 B104/B102

14,2200

AUTHORS: Kotel'nikov, N. V., Korenev, N. A., Malinen, P. A.,

Yermolina, T. D.

TITLE: Magnetic properties and structure of nickel films produced

by chemical methods

PERIODICAL: Akademiya nauk SSSR. Doklady, v.146, no. 4, 1962, 797 - 798

TEXT: The specimens (Table 1) were produced and studied by methods fully described in a previous paper (N. V. Kotel'nikov et al., DAN, 143, no. 4, 908 (1962)). A nickel wire was fastened to a copper backing and nickel was precipitated for 20 min at a bath temperature of  $87^{\circ}$ C, the bath being renewed every 5 minutes. The specimens 2, 3, 4, and 5 showed ferromagnetic properties (hysteresis loops) when the magnetic field had an amplitude of 84 oe and a frequency of 50 cps. With stronger fields, specimen 1 too showed ferromagnetic properties. Freshly produced specimens were amorphous or crystalline. Amorphous specimens showed no ferromagnetic properties. X-ray pictures of specimens 1 and 4 show blurred lines of  $\beta$ -Ni. A fine dispersion of the precipitates is inferred from the blurred quality of the lines depending on the reflection angle. The x-ray picture of specimen 6 Card 1/2

#### "APPROVED FOR RELEASE: 06/14/2000

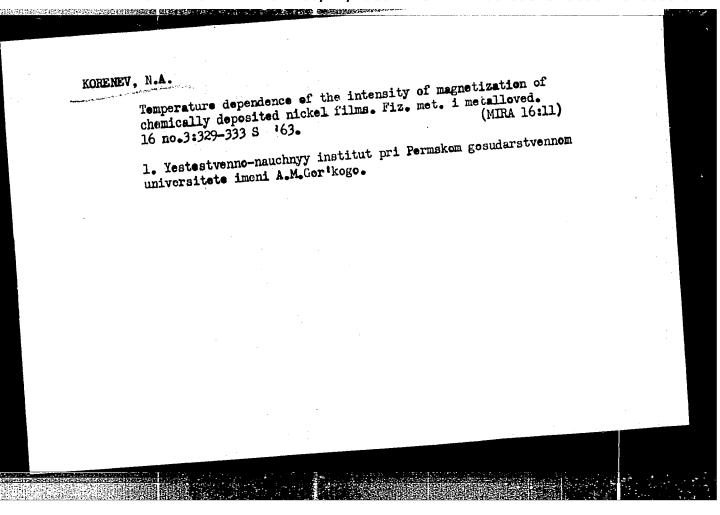
CIA-RDP86-00513R000824620003-6

s/020/62/146/004/006/015 B104/B102 Magnetic properties and structure ... is typical of an "amorphous" body with diffuse lines corresponding to an interplanar spacing of d = 2.03 % and somewhat shifted as compared with the (111) lines of the cubic nickel lattice. There are 3 figures and 1 table. ASSOCIATION: Permskiy gosudarstvennyy universitet im.A. M. Gor'kogo (Perm' State University imeni A. M. Gor'kiỳ) PRESENTED: May 10, 1962, by A. V. Shubnikov, Academician SUBMITTED: May 9, 1962 Table 1. E CO 12 10 8 6,5 30 30 30 30 30 10 10 5,2 6,6 Table 1 10 Card 2/2 10

KOTEL'NIKOV, N.V.; KORENEV, N.A.; MALINEN, P.A.; YERMOLINA, T.D.

Effect of annealing on the magnetic properties and structure of nickel obtained by a chemical method. Izv. SO AN SSSR no.10:142-146 163.

1. Permskiy gosudarstvennyy universitet.



ACCESSION NR: AP4009193

s/0288/63/000/003/0142/01.46

AUTHOR: Kotel nikov, N. V.; Korenev, N. A.; Malinen, P. A.; Yermolina, T. D.

TITLE: The effect of annealing on the magnetic properties and structure of nickel obtained by a chemical method

SOURCE: AN SSSR. Sibirskoye otdelemiye. Izv. Seriya tekhnicheskikh nauk, no. 3, 1963, 142-146

TOPIC TAGS: nickel precipitates, chemical nickel precipitates, amorphous nickel structure, crystalline nickel structure, annealed nickel, beta-nickel crystal lattice, nickel ferromagnetic properties,  $\rho$ -Ni

ABSTRACT: Precipitates of nickel obtained by a chemical method have a complex structure, resulting from the presence of phosphor in them (K.M. Gorbunov and A.A. Nikiforova, Fiziko-khimicheskoye osnovy\* proteessa khimicheskogo nikeliro-vaniya. Izd-vo AN SSSR, M., 1960). The magnetic and other properties of precipitates are determined by their internal structure. According to data from a series of investigations carried out by various methods (Gorbunov and Nikiforova; V.P. Moiseyev, Izv. AN SSSR, ser. fiz., t. 26, No. 3, 378, 384, 1962).

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precipitates of chemically reduced hypophosphite of nickel in the initial state have an amorphous structure which changes to crystalline during heat processing. According to Kotel'nikov, Korenev and others (DAN SSSR, v pechati), who recently carried out structure studies using x-ray's, precipitates in the initial state may have not only an amorphous, but a crystalline structure besides; it was also observed that samples obtained with a crystalline structure have ferromagnetic properties, whereas amorphous-structured samples do not. In the present article, on the basis of the forementioned articles and others, samples with ferromagnetic properties have been produced, which, as x-ray studies show, have a crystal structure in agreement with previous data. The effect of annealing on the ferromagnetic properties and structure of precipitates of the samples produced has been studied, with the following conclusions: 1) precipitates of nickel obtained chemically have in the initial state not only an amorphous, but also a crystalline structure with a lattice, characteristic of  $\beta$ -Ni; 2) all samples having a crystalline structure in the initial state have ferromagnetic properties, while samples with an amorphous structure do not have these properties; 3) the annealing of amorphous precipitates results in the appearance of ferromagnetic properties; 4) the annealing of precipitates which have a crystalline structure in the initial state results in improving the

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ACCESSION NR: AP4009193

crystal lattice  $\beta$ -Ni and to the occurence of new phases, as indicated by the appearance of new lines not visible before annealing; 5) together with improvement of the crystal lattice, the annealing of samples implies a change of their ferromagnetic properties; 6) the greatest change in ferromagnetic properties at a temperature of 400°C occurs in the first 20 minutes; 7) several ferromagnetic phases may appear in precipitates as a result of annealing; these may be distinguished from one another, for example, by the percentage content of phosphor in similar crystalline structures of nickel; 8) improvement of the crystal structure  $\beta$ -Ni and the occurance of new phases results in an improvement of  $I_S$  and  $H_C$  for each sample as a whole, for which the latter is related to an appearance of microconnections of non-ferromagnetic phases which occur in the heat treatment process. Orig. art. has: 5 figures and 2 tables.

ASSOCIATION: Permskiy gosudarstvenny\*y universitet (Perm'State University)

SUBMITTED: 23May62

DATE ACQ: 10Feb64

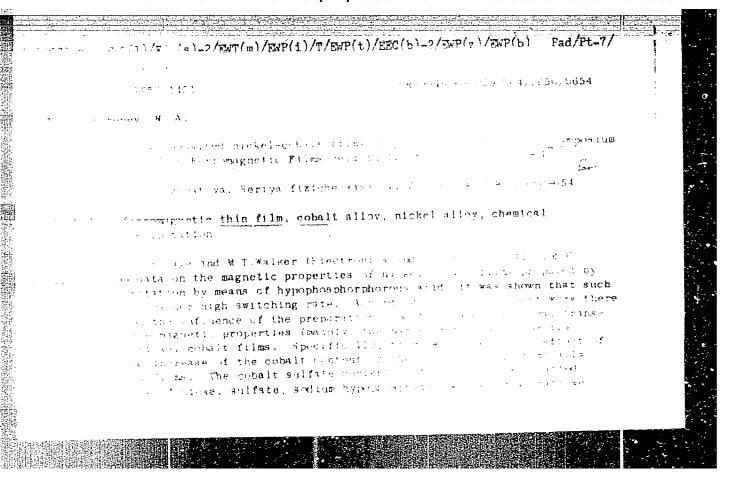
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KORENEV, N.A.; MARTSENYUK, T.D.; UVAROV, A.I.

Magnetic properties and structure of cobalt films produced by the chemical precipitation method. Izv. vys. ucheb. zav.; fiz. 8 no.1:85-88 '65. (MIRA 18:3)

1. Yestestvenno-nauchnyy institut pri Permskom gosudarstvennom universitete imeni Gor'kogo.

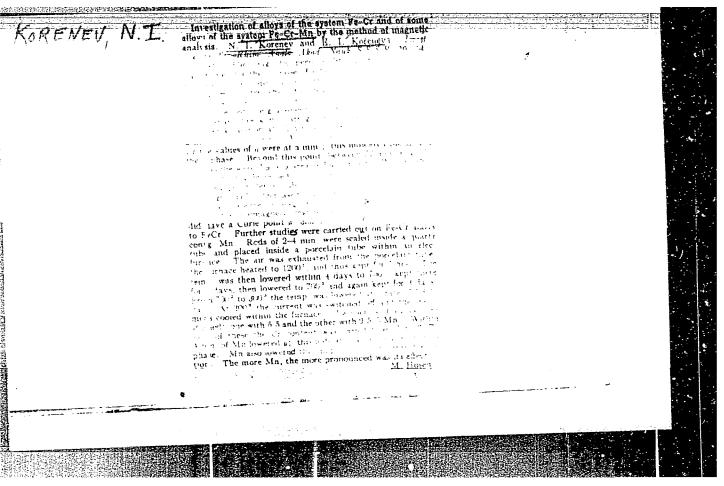
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#### CIA-RDP86-00513R000824620003-6

EVT(1)/EVT(m)/T/EVP(t) IJP(c) JD/GG L 18827-66 ACC NR: AP6002016 SOURCE CODE: UR/0288/65/000/003/0086/0092 (A) AUTHOR: Korenev, N. A. ORG: Institute of Physics, Siberian Branch, AN SSSR (Institut fiziki Sibirskogo TITLE: Magnetic properties of chemically precipitated layers as a function of crystal lattice perfection SOURCE: AN SSSR. Sibirskoye otdeleniye, Izvestiya. Seriya tekhnicheskikh nauk, no. 3, 1965, 86-92 TOPIC TAGS: metal deposition, nickel, magnetic property, hysteresis loop, crystal structure analysis, crystal polymorphism, lattice defect, Curie point, metal physics, crystal lattice distortion, magnetization ABSTRACT: The effect of crystal lattice distortions (caused by various dopants) on the degree of film magnetization, the Curie point, and coercive force was studied. Nickel sulfate solutions in which the concentration of sodium hypophosphate was varied from 2 to 30 g/1 were used. Changes in hysteresis loops and Curie points for these samples are graphed. The magnetization had a minimum of 11 gs at 4 g/1 UDC: 539.216.22: 538.539.216.22: 546.74 Card 1/2 Card 2/2 //,

**APPROVED FOR RELEASE: 06/14/2000** 

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- 1. DAVYDOVA, N. I.; KORENEV. N. I.
- 2. USSR (600)
- 4. Saws
- 7. Using less electric power in operation of saws. Der. i lesokhim. prom. 2, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

# KORENEV, N.I.

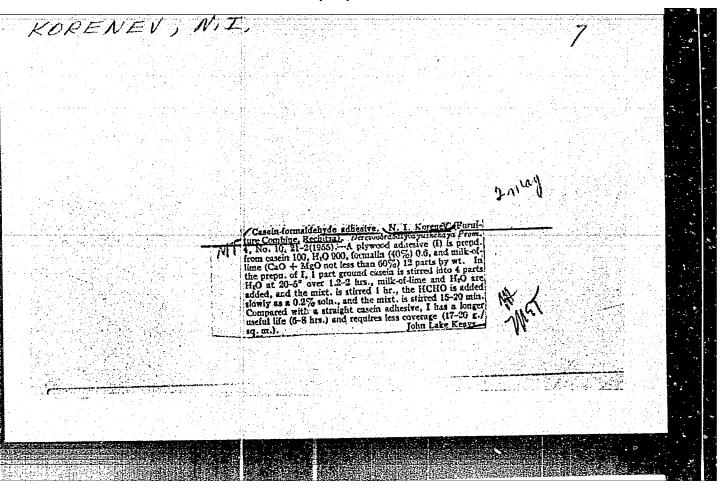
Conveyor lines for assembling furniture at the Rechitsa Furniture Combine.

Der.1 lesokhim.prom. 2 no.7:23 Jl 153. (NLRA 6:5)

1. Rechitskiy mebel'nyy kombinat, (Furniture industry) (Conveying machinery)

Making plywood from aspen with albumen gine. Der. i lesokhim.
prom. 3 no.10:25-26 0 '54. (MLRA 7:11)

1. Rechitskiy mebel'nyy kombinat.
(Plywood)



SHESTIALITYMOV, S.I.; KOREMEV, M.I.; GARBLIK, Ye.M.; VYATKIN, M.D.

Drying lumber in the chamber-24 produced by the Central Scientific Research Institute for Machine Weedworking. Der.prem. 5 ne.6:18-19 Je '56.

1.Rachitskiy mebel'myy kembinat. (Lumber--Drying)

KORENEY, H.I., inshemer. Joiner's panels with hardboard sheathings. Der. prom. 6 no.2: 23-25 T 157. 1. Rechitskiy mebel'nyy kombinat. (Hardboard) (Furniture industry)

•	A CONTRACTOR OF THE PERSON ASSESSED.	Production and use of M-60 resin for furniture veneering.  (MIRA prom. 6 no.8:21 Ag '57.			Der. 10:11)			
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